CONTACT DUPLICATING AND RESEAU PRINTER

AND

HIGH RESOLUTION STEP AND REPEAT PRINTER

Period: Nov. 1, 1965 to Dec. 1, 1965

#17

[redacted]

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Approved For Release 2005/02/17 : CIA-RDP78B04770A001600040009-3

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1.0 CONTACT DUPLICATING AND RESEAU PRINTER

1.1 Purpose

The overall objective of the current contract is the design, fabrication, test, and delivery in fifteen months of a Photographic, Step and Repeat, Contact Duplicating and Reseau Printer. Prime design goals are high-speed automatic operation, variable format capability, and high resolution with minimum film distortion or damage. The delivered equipment will be suitable for operational use. The printer will accommodate films of 70 mm to 9 1/2" width with frame lengths up to 30 inches and will provide operation in the reseau mode and selective mode as options.

1.2 Activity of this Report Period

Fabrication and assembly of the deliverable printer has been completed with the exception of the negative film transport subsystem and the frame edge detector sub-assembly with its associated wiring. The control chassis and control circuit wiring has been completed, and test and debugging has started.

Fabrication and assembly of the Pre-View and Punch Station has also been completed with the exception of a front cover plate. Test and debugging has been initiated.

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A meeting was held with the technical monitors on November 23 at the STAT [redacted] Facility, where a revised transport system was demonstrated. Film stopping accuracies with the frame edge detector were demonstrated to be approximately ± 1/4 inch on a 500-foot roll of 9 1/2" film. An alternate scheme utilizing a constant film speed D.C. drive motor also looks promising and is under further test.

It was decided that the final circuitry and components for the frame edge detector design would be incorporated and tested on the breadboard, with low-density negatives, having at least a Δd of 0.2 density units as a criterion for detection.

Drawings of the pre-installed printer mounting base were delivered to the technical monitors for aid in installation planning. It was further STAT recommended by [redacted] that a one-week training course after printer installation be considered as a separate contractual item.

1.3 Plans for Next Period

Circuit debugging and preliminary machine test will be continued. Final fabrication and assembly of the frame edge detector components will be made after satisfactory tests have been concluded on the breadboard unit.

1.4 Problems

After revisions in the film transport and frame edge detector have been finalized, it is expected that the deliverable printer will be completed and ready for customer testing in January.

[redacted] STAT

1.5 Documentation

There was no new documentation this month.

1.6 Questions Outstanding

Increase in scope question and lack of funds are still unresolved.

2.0 HIGH RESOLUTION STEP AND REPEAT PRINTER

2.1 Purpose

The purpose of this effort is to design, fabricate, test and deliver in twenty months a high precision, step and repeat, photographic contact printer. This printer will be capable of producing photographic contact prints of the highest possible quality, resolution, and acutance from roll films of width varying from 70 mm to 9½" and in preselected frame lengths from 5 inches up to a maximum of 30 inches.

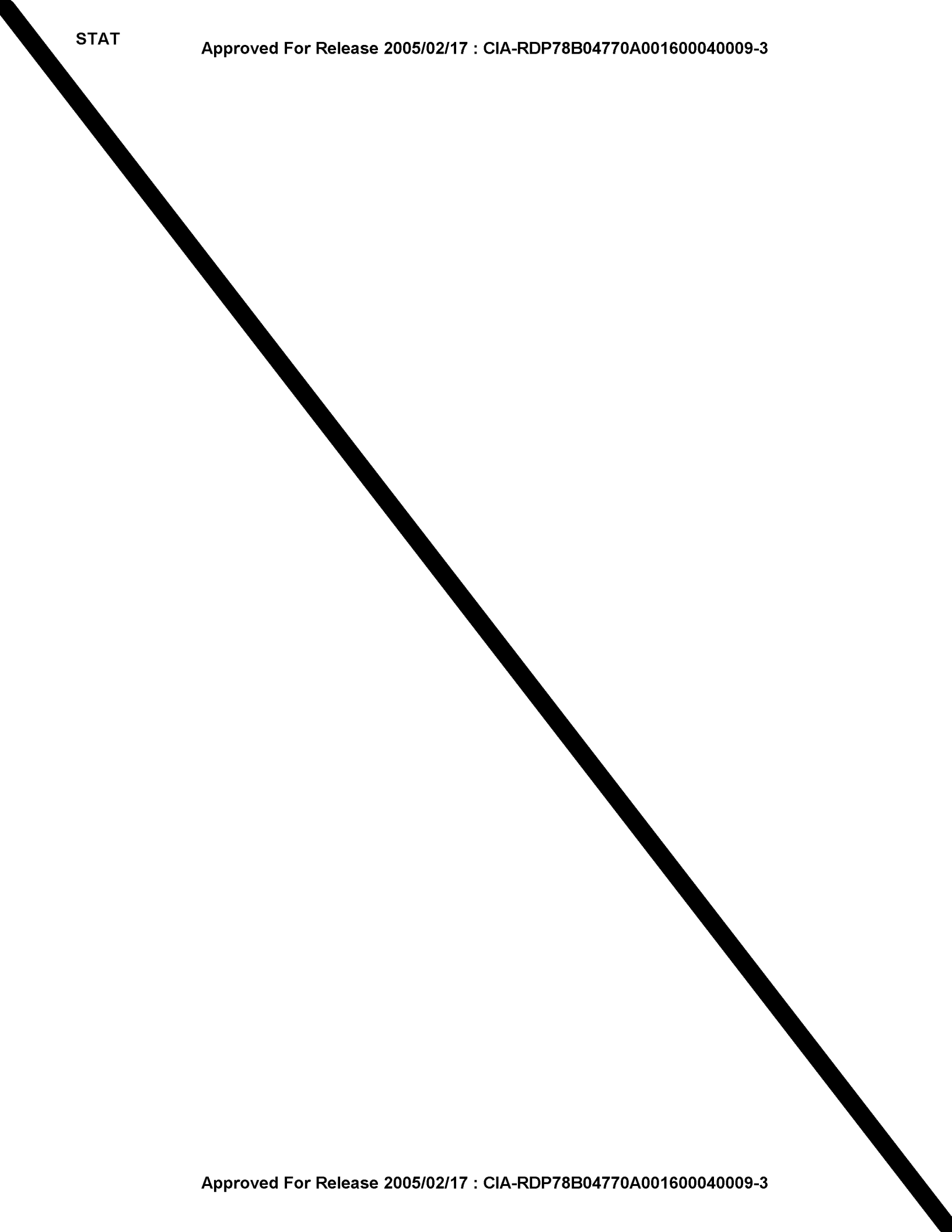
2.2 Activity of This Report Period

All activity has been stopped as of October 13, 1965, when a verbal stop work order was received at [redacted] from the Contracting Officer. STAT

2.3 Questions Outstanding

Increase in scope question and lack of funds are still unresolved.

[redacted] STAT



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